WHAT IS CLAIMED IS:

- 1. An isolated nucleic acid comprising the
 2 nucleotide sequence SEQ ID NO:2 as depicted in FIG. 3, or
 3 the nucleotide sequence of a gene or gene fragment contained
 4 in the following clone as deposited with the NRRL: pFOMY030
 5 (NRRL accession No. B-21416).
- 2. An isolated nucleic acid which encodes the amino acid sequence depicted in Fig. 3 from amino acid residue number 1 to 542, or its complement.
- 3. An isolated nucleic acid which hybridizes to an isolated nucleic acid which encodes the amino acid sequence depicted in Fig. 3 from amino acid residue number 1 to 542, or its complement.
- 4. A genetically engineered host cell comprising the nucleotide sequence of Claim 2.
- 5. An expression vector comprising the nucleotide sequence of Claim 2 in operative association with a nucleotide sequence regulatory element that controls expression of the nucleotide sequence in a host cell.
- 1 6. A substantially pure gene product encoded by the 2 nucleic acid of Claim 3.
- 7. An isolated nucleic acid comprising the
 nucleotide sequence SEQ ID No:6 as depicted in FIG. 5, or
 SEQ ID NO:8 as depicted in FIG. 6.

- 8. An isolated nucleic acid which encodes the amino acid sequence depicted in Fig. 5 from amino acid residue number 1 to 1497, or its complement.
- 9. An isolated nucleic acid which encodes the amino / 2 acid sequence depicted in Fig. 6 from amino acid residue 3 number 1 to 1533, or its complement.
- 10. An isolated nucleic acid which hybridizes to a nucleic acid that encodes the amino acid sequence depicted in Fig. 5 from amino acid residue number 1 to 1497 (SEQ ID NO:7), or its complement or the amino acid sequence depicted in Fig. 6 from amino acid residue number 1 to 1533 (SEQ ID NO:9), or its complement
- 1 11. A nucleotide vector containing the nucleotide 2 sequence of Claim 10.
- 1 12. A genetically engineered host cell containing 2 the nucleotide sequence of Claim 10.
- 1 13. An expression vector containing the nucleotide 2 sequence of Claim 10 in operative association with a 3 nucleotide sequence regulatory element that controls 4 expression of the nucleotide sequence in a host cell.
- 1 14. A substantially pure gene product encoded by 2 the nucleic acid of Claim 10.
- 1 15. An antibody that immunospecifically binds the 2 gene product of Claim 14.

1

2

4

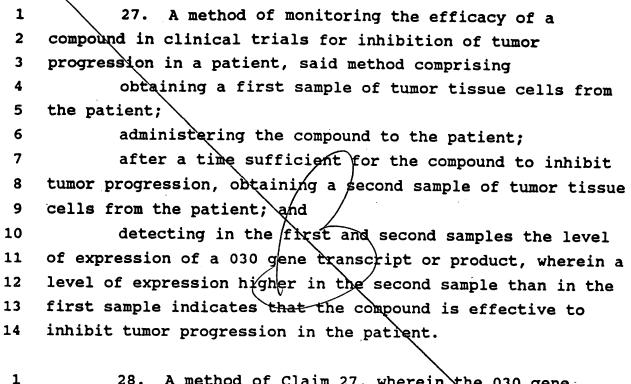
16. A method of diagnosing tumor progression in a 1 mammal \ said method comprising: 2 obtaining a test sample of tissue cells from the 3 mammal; 4 obtaining a control sample of known normal cells 5 from the same type of tissue; and 6 detecting in both the test sample and the control 7 sample the level of expression of a gene transcript or gene 8 product of gene\030, wherein a level of expression lower in 9 the test sample than in the control sample indicates a tumor 10 progression state in the test sample. 11

- 17. A method for treating tumor progression in a mammal, said method comprising administering to the mammal a compound in an amount effective to increase the level of 3 expression or activity of a gene transcript or gene product of gene 030 in cells exhibiting a tumor progression state, 5 to a level effective to ameliorate symptoms of the tumor 6 7 progression state.
- A method of Claim 17, wherein the compound 1 comprises a nucleic acid whose administration results in an 2 increase in the level of the differentially expressed gene 3 transcript and gene product in the cells in the tumor 4 progression state, thereby ameliorating symptoms of the 5 6 tumor progression state.
- A method of Claim 18, wherein the nucleic acid 1 comprises a nucleic acid of gene 030. 2
- A method of Claim 17, wherein the compound is a 1 2 030 gene product.

- 21. A method of Claim 17, wherein the tumor progression state is neoplasia.
- 1 22 A method of Claim 17, wherein the tumor 2 progression state is metastasis.
- 23. A method for inhibiting tumor progression in a mammal, said method comprising administering to the mammal a normal allele of a 030 gene so that the normal gene product is expressed, thereby inhibiting tumor progression.
- 24. A method of Claim 23, wherein the tumor progression is metastasis.
- 25. A method for treating tumor progression in a mammal, said method comprising administering to the mammal an effective amount of a 030 gene product.
- 26. A method of Claim 25, wherein the tumor progression is metastasis.

2

3



28. A method of Claim 27, wherein the 030 gene transcript or gene product is differentially expressed in individuals predisposed to a metastatic neoplastic disease.

174591.B11

AUE7